

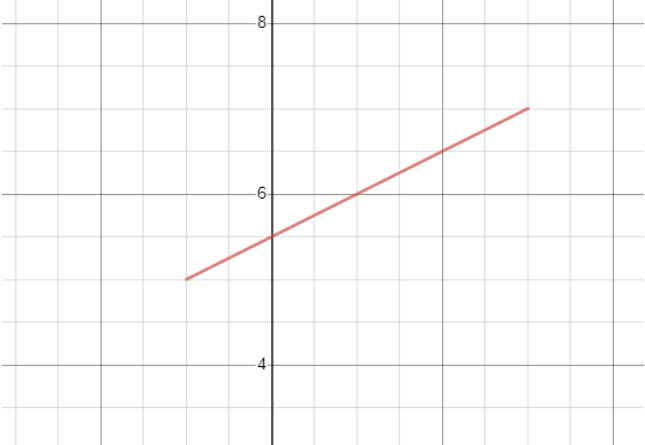


## Desmos

<p>1. Write the equation for <math>x</math> and <math>y</math> as an ordered pair.</p>	$\frac{x=2t-1}{y=t+5}$	 $(2t - 1, t + 5)$
<p>2. An inequality defining <math>t</math> will automatically appear. Fill in your lowest and highest values of <math>t</math>.</p>	 $(2t - 1, t + 5)$ $0 \leq t \leq 2$	
<p>3. The graph will display the <math>x</math> and <math>y</math> values for the defined <math>t</math> values.</p>		

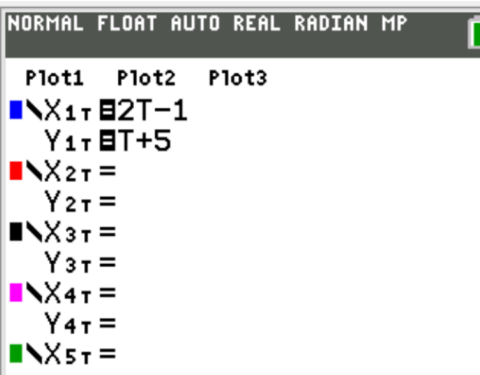
## TI Graphing Calculator

1. Press **Mode** and use the **arrows** to move the cursor to PARAMETRIC. Press **Enter** to change the type of equation.



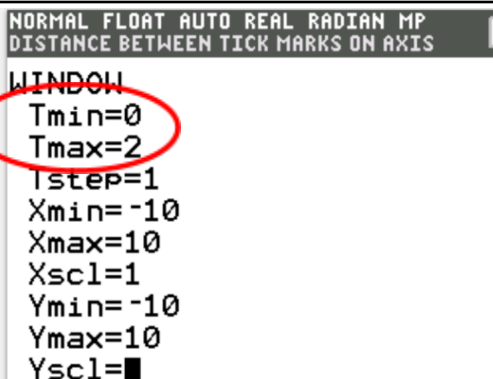
NORMAL FLOAT AUTO REAL Radian MP  
FUNCTION TYPES  
MATHPRINT CLASSIC  
NORMAL SCI ENG  
FLOAT 0 1 2 3 4 5 6 7 8 9  
Radian DEGREE  
FUNCTION **PARAMETRIC** POLAR SEQ  
THICK DOT-THICK THIN DOT-THIN  
SEQUENTIAL SIMUL  
REAL a+bi re^(θi)  
FULL HORIZONTAL GRAPH-TABLE  
FRACTION TYPE: n/d Un/d  
ANSWERS: AUTO DEC  
STAT DIAGNOSTICS: OFF ON  
STAT WIZARDS: ON OFF  
SET CLOCK 01/01/15 12:00 AM  
LANGUAGE: ENGLISH

2. Press **y=** and you will notice that there is now a space for both an x and y equation, written in terms of  $t$ . Enter in the equation, using the  $X$ ,  $T$ ,  $\theta$ ,  $n$  button for  $T$ .



NORMAL FLOAT AUTO REAL Radian MP  
Plot1 Plot2 Plot3  
X<sub>1T</sub> = 2T-1  
Y<sub>1T</sub> = T+5  
X<sub>2T</sub> =  
Y<sub>2T</sub> =  
X<sub>3T</sub> =  
Y<sub>3T</sub> =  
X<sub>4T</sub> =  
Y<sub>4T</sub> =  
X<sub>5T</sub> =

3. Press **Window** to set the highest and lowest values of  $t$ .



NORMAL FLOAT AUTO REAL Radian MP  
DISTANCE BETWEEN TICK MARKS ON AXIS  
WINDOW  
Tmin=0  
Tmax=2  
Tstep=1  
Xmin=-10  
Xmax=10  
Xscl=1  
Ymin=-10  
Ymax=10  
Yscl=1

Graphing Parametric Equations  
Reference Sheet

4. Press **Graph**.

